Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Date: 09-01-19

Lab ID	:	**CP-2019-03-25-88**
Project Name	:	Construction of Marrige Community Hall Chikkabettahalli Village in Ward No 03 of Yelahanka Assembly Constitutency.
Agency	:	Sri.H.V Omkarappa, Class-1 PWD Contractor,#27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Customer's Reference	:	EE/(Project)/Ynk/WO/119/2017-18
Date of Receipt	:	07-01-19
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	07-01-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	25	25	2.5	97.5	90-100	90-100	90-100	95-100
3	2.36 mm	53	78	7.8	92.2	60-95	75-100	85-100	95-100
4	1.18 mm	237	315	31.5	68.5	30-70	55-90	75-100	90-100
5	600 micron	203	518	51.8	48.2	15-34	35-59	60-79	80-100
6	300 micron	201	719	71.9	28.1	5-20	8-30	12-40	15-50
7	150 micron	193	912	91.2	8.8	0-10	0-10	0-10	0-15
8	Pan	88	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-03-25-88** **Date: 09-01-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.52	_
2	Specific Gravity	2.56	_
3	Material finer than 75 micron(%)	6.4	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT FOR PLASTER SAND

Lab ID	:	**CP-2019-03-25-88** **Date: 21-01-19**
Project Name	:	Construction of Marrige Community Hall Chikkabettahalli Village in Ward No 03 of Yelahanka Assembly Constitutency.
Agency	:	Sri.H.V Omkarappa, Class-1 PWD Contractor,#27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Customer's Reference	:	EE/(Project)/Ynk/WO/119/2017-18
Date of Receipt	:	16-01-19
Sample Type	:	Plaster Sand
Reference to BIS codes	:	IS: 383 : 2016 (Specification for Coarse and fine Aggregates) IS1542:1992 (Sand for Plaster - Specification) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	16-01-19
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	10 mm	0	0	0	100	100
2	4.75 mm	30	30	3	97	95-100
3	2.36 mm	10	40	4	96	95-100
4	1.18 mm	55	95	9.5	90.5	90-100
5	600 micron	100	195	19.5	80.5	80-100
6	300 micron	210	405	40.5	59.5	20-65
7	150 micron	505	910	91	9	0-15
8	Pan	90	1000	100	0	---

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-03-25-88** **Date: 21-01-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.6	_
2	Specific Gravity	2.54	_
3	Material finer than 75 micron(%)	8.3	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-03-25-88** **Date: 10-01-19**
Project Name	:	Construction of Marrige Community Hall Chikkabettahalli Village in Ward No 03 of Yelahanka Assembly Constitutency.
Agency	:	Sri.H.V Omkarappa, Class-1 PWD Contractor,#27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Customer's Reference	:	EE/(Project)/Ynk/WO/119/2017-18
Date of Receipt	:	07-01-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	08-01-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.51	_
2	Finess by Air permeablity method (m^2/kg,Min)	287.3	225m^2/kg, Min
3	Density (gm/cc)	3.14	_
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 05-02-19

Lab ID	:	**CP-2019-03-25-88**
Project Name	:	Construction of Marrige Community Hall Chikkabettahalli Village in Ward No 03 of Yelahanka Assembly Constitutency.
Agency	:	Sri.H.V Omkarappa, Class-1 PWD Contractor,#27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Customer's Reference	:	EE/(Project)/Ynk/WO/119/2017-18
Date of Receipt	:	07-01-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	08-01-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	59.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-03-25-88** **Date: 10-01-19**
Project Name	:	Construction of Marrige Community Hall Chikkabettahalli Village in Ward No 03 of Yelahanka Assembly Constitutency.
Agency	:	Sri.H.V Omkarappa, Class-1 PWD Contractor,#27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Customer's Reference	:	EE/(Project)/Ynk/WO/119/2017-18
Date of Receipt	:	07-01-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	07-01-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	316	316	2.1	97.9	90-100
3	20 mm	7443	7759	51.7	48.3	30-70
4	10 mm	5154	12913	86.1	13.9	10-35
5	4.75 mm	1713	14626	97.5	2.5	0-5
6	Pan	374	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-03-25-88** **Date: 10-01-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	7.7	
3	Specific Gravity	2.63	_
4	Bulk Density(Loose) (Kg/l)	1.36	_
5	Bulk Density(Compacted) (Kg/l)	1.44	_
6	Water Absorption(%)	0.28	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-03-25-88** **Date: 09-01-19**
Project Name	:	Construction of Marrige Community Hall Chikkabettahalli Village in Ward No 03 of Yelahanka Assembly Constitutency.
Agency	:	Sri.H.V Omkarappa, Class-1 PWD Contractor,#27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.
Customer Reference	:	EE/(Project)/Ynk/WO/119/2017-18
Date of Receipt	:	07-01-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	07-01-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	253	253	5.1	94.9	90-100
3	10 mm	2787	3040	60.8	39.2	25-55
4	4.75 mm	1543	4583	91.7	8.3	0-10
5	Pan	417	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-03-25-88** **Date: 09-01-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.2	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.51	–
5	Bulk Density(Compacted) (Kg/l)	1.53	–
6	Water Absorption(%)	0.27	–
7	Aggregate crushing Value(%)	24.3	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.6	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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